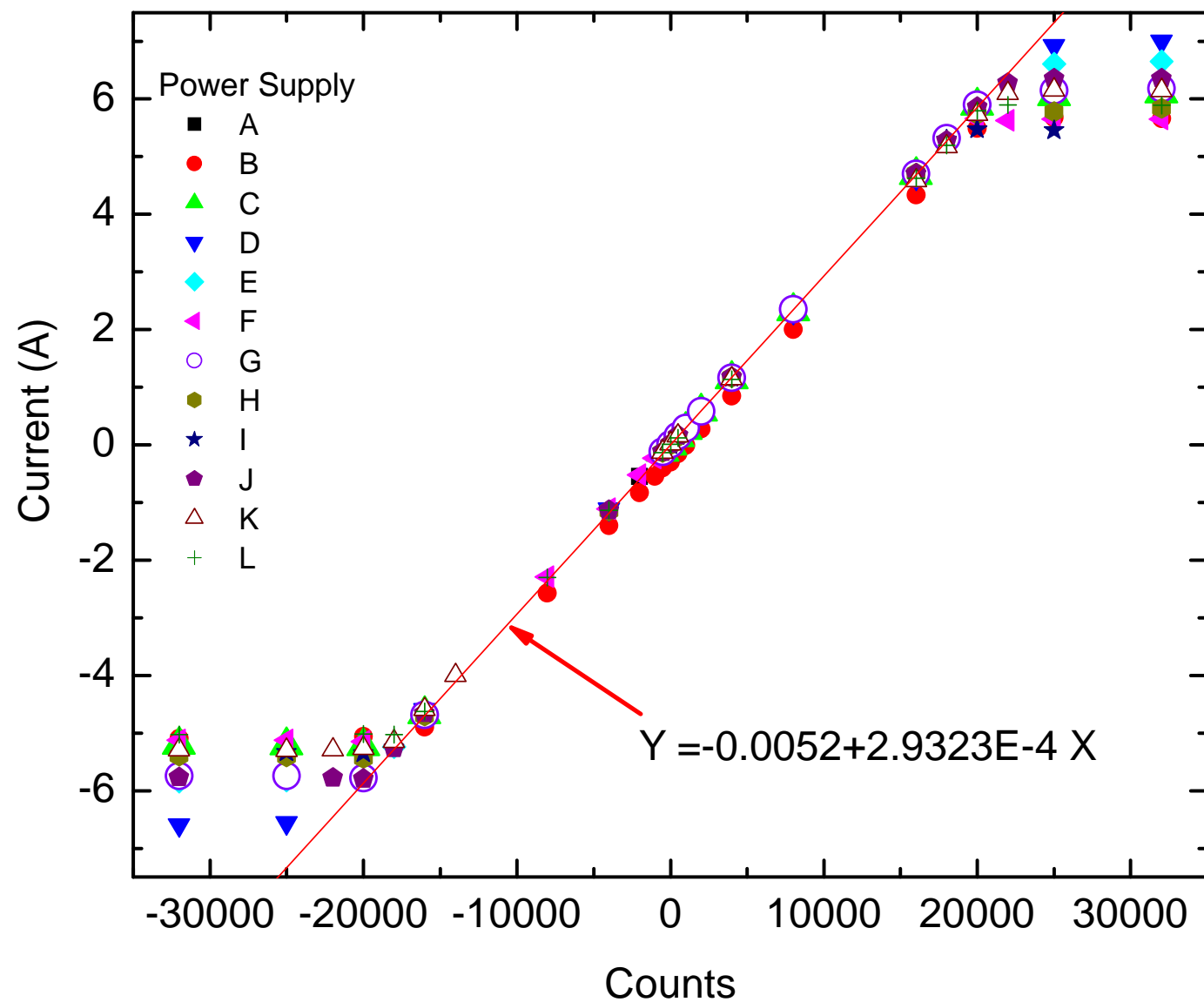


## Current values (A) for Bipolar Power Supply Lower – Rack 2

Counts	A	B	C	D	E	F	G	H	I	J	K	L
-32000	-5.34	-5.1	-5.21	-6.59	-5.84	-5.12	-5.75	-5.4	--	-5.77	-5.29	-5.03
-25000	--	--	-5.22	-6.56	-5.82	-5.12	-5.75	-5.41	-5.34	--	-5.3	--
-22000	--	--	--	--	--	--	--	--	--	-5.78	-5.29	--
-20000	-5.29	-5.06	-5.23	-5.77	-5.8	-5.15	-5.78	-5.44	-5.35	-5.8	-5.27	-5.02
-18000	--	--	--	--	-5.24	--	--	--	-5.26	-5.27	-5.15	-5.03
-16000	-4.7	-4.9	-4.68	-4.59	-4.66	-4.67	-4.69	-4.7	-4.67	-4.66	-4.59	-4.63
-14000	--	--	--	--	--	--	--	--	--	--	-4	--
-8000	--	-2.57	--	--	--	-2.29	--	--	--	--	--	-2.3
-4000	--	-1.4	--	-1.11	--	-1.11	--	-1.15	--	-1.14	--	-1.14
-2000	-0.55	-0.83	--	--	--	-0.52	--	--	--	--	--	--
-1000	--	-0.55	--	--	--	-0.23	--	--	--	--	--	--
-500	-0.11	-0.4	-0.12	-0.1	-0.12	-0.1	-0.12	-0.13	-0.12	-0.13	-0.13	-0.14
0	0.02	-0.3	-0.02	0	0	0.01	0.01	0	-0.01	0.02	0.02	0.01
500	0.11	-0.15	0.13	0.14	0.14	0.13	0.15	0.14	0.15	0.16	0.15	0.12
1000	0.26	-0.01	0.26	0.29	0.28	0.29	0.29	--	--	--	--	--
2000	0.56	0.27	0.57	0.58	0.57	0.59	0.58	--	--	--	--	--
4000	1.13	0.85	1.14	1.15	1.15	1.18	1.16	1.17	1.16	1.17	1.15	1.14
8000	2.33	2	2.32	2.3	2.33	2.35	2.35	--	--	--	--	--
16000	4.71	4.34	4.68	4.63	4.67	4.73	4.7	4.71	4.69	4.7	4.58	4.63
18000	--	--	--	--	5.28	--	5.32	--	5.29	5.28	5.17	5.2
20000	5.93	5.49	5.88	5.82	5.87	5.66	5.9	5.74	5.47	5.86	5.74	5.8
22000	--	--	--	--	--	5.63	--	--	--	6.28	6.1	5.9
25000	--	5.68	6.05	6.93	6.61	5.65	6.15	5.78	5.46	6.35	6.16	--
32000	6.25	5.66	6.1	7	6.65	5.65	6.18	5.84	--	6.35	6.15	5.89

Bipolar Power Supply - Rack 2



## CURRENT MEASUREMENT ON BIPOLAR POWER SUPPLY (BPSL – RACK 2)

Date of report: 10/24/2002

Current measurements on the reconditioned bipolar power supplies labeled BPSL-Rack 2 in the present schematic (as of 10/15/2002) have been performed. Reconditioning was done to include a current-limiting resistor and replacement with a new transistor.

There are 12 power supplies, labeled A through L. The enclosed figure shows the current output from each power supply as a function of “counts” set on the control panel. The solid line is a linear fit to Power Supply A over the range where the data points appear linear. Due to the similarities with the rest of the power supplies, this linear fit is a good representation of the performance of all the power supplies. This gives a clear visualization of the range of counts that gives a roughly linear current values. The figure also shows the parameters of the linear fit.

The accompanying table lists the exact values of the currents used in the figure.

Zeke Yusof.